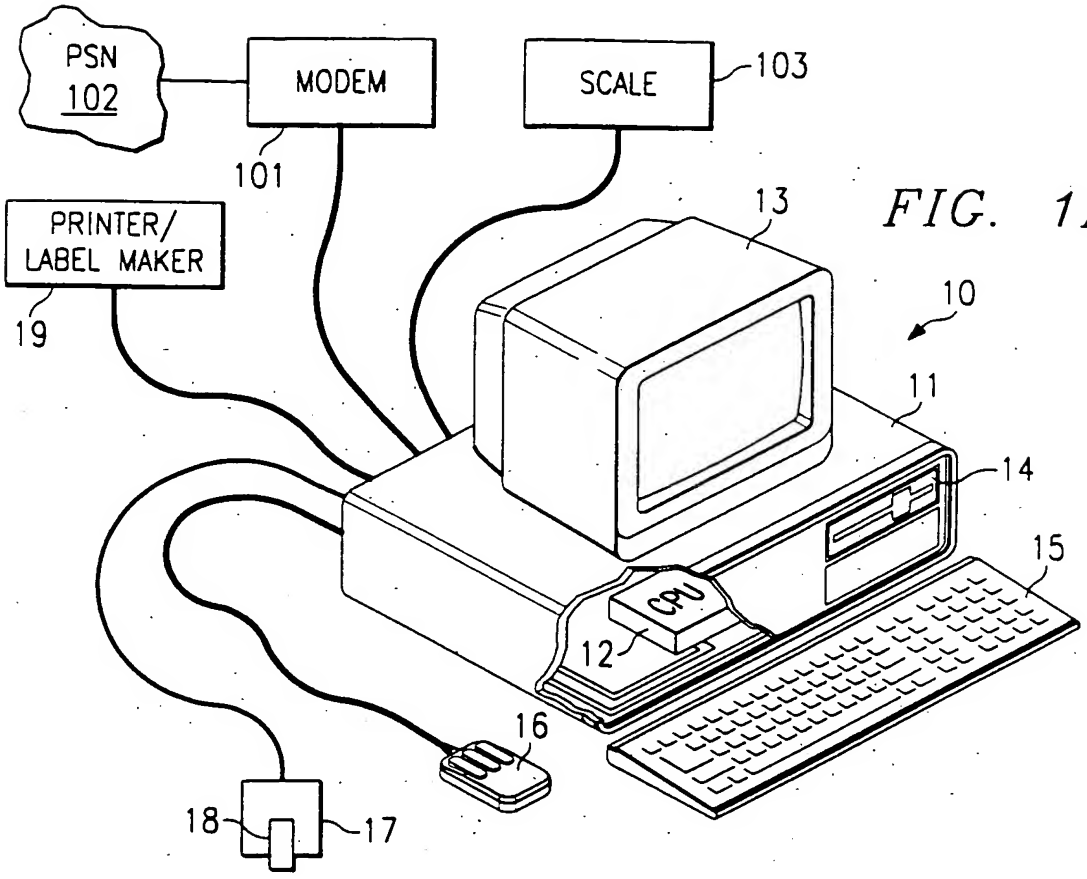
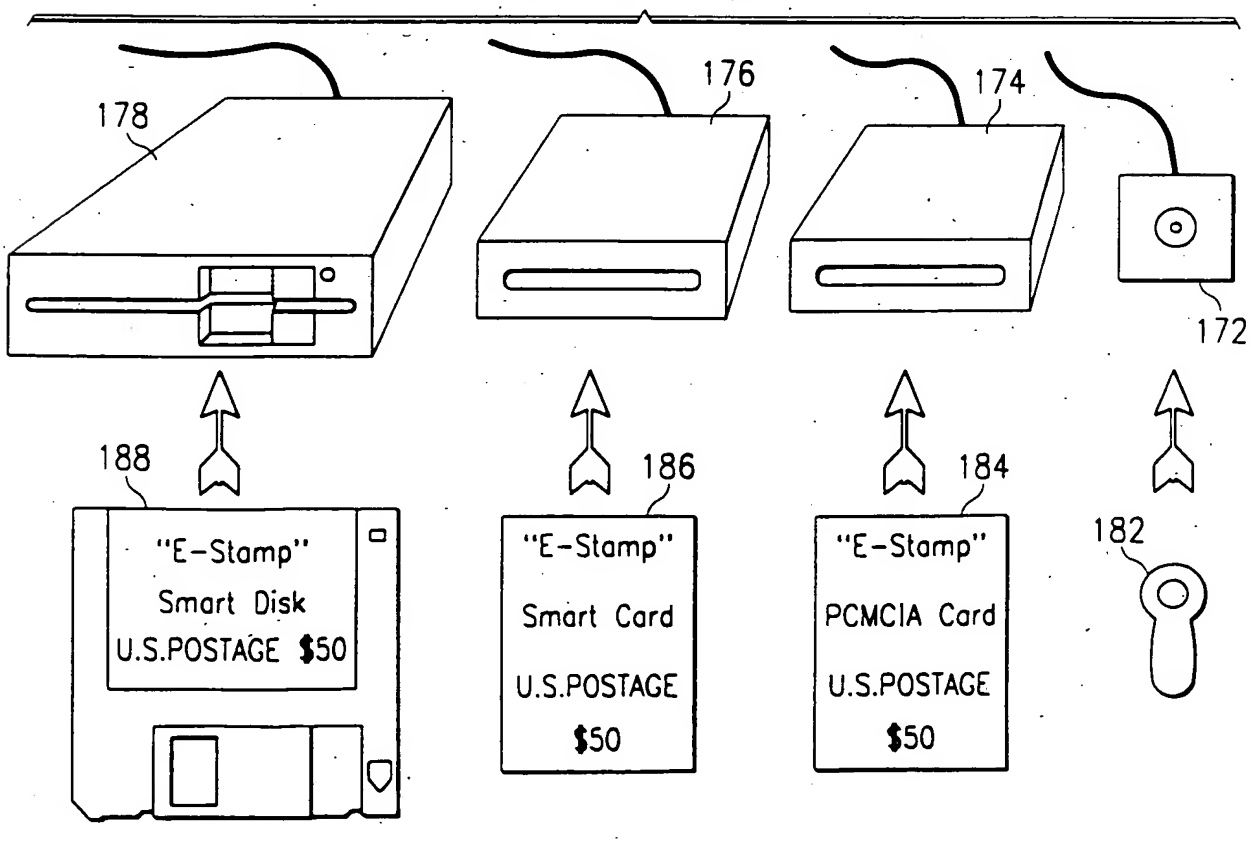

PSN
102
MODEM
101
SCALE
103
PRINTER/
LABEL MAKER
19
13
10
11
14
15
CPU
12
16
18
17

FIG. 1A

FIG. 1B


178
176
174
172
188
186
184
182
"E-Stamp"
Smart Disk
U.S.POSTAGE $50
"E-Stamp"
Smart Card
U.S.POSTAGE
$50
"E-Stamp"
PCMCIA Card
U.S.POSTAGE
$50

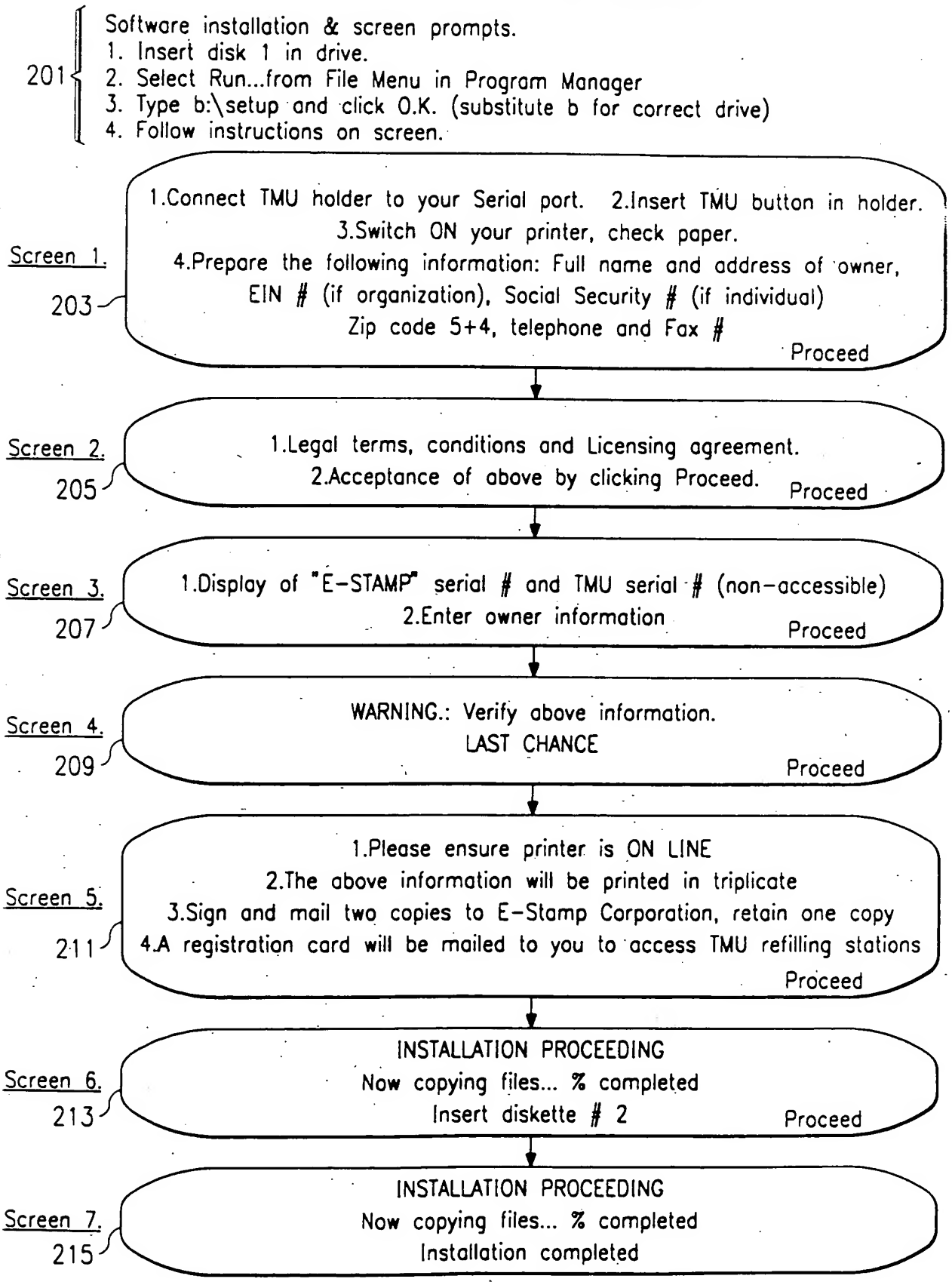

"E-Stamp"- E-Stamp Corporation
201
Software installation & screen prompts.
1. Insert disk 1 in drive.
2. Select Run...from File Menu in Program Manager
3. Type b:\setup and click O.K. (substitute b for correct drive)
4. Follow instructions on screen.
Screen 1.
203
1.Connect TMU holder to your Serial port. 2.Insert TMU button in holder.
3.Switch ON your printer, check paper.
4.Prepare the following information: Full name and address of owner,
EIN # (if organization), Social Security # (if individual)
Zip code 5+4, telephone and Fax #
Proceed
Screen 2.
205
1.Legal terms, conditions and Licensing agreement.
2.Acceptance of above by clicking Proceed.
Proceed
Screen 3.
207
1.Display of "E-STAMP" serial # and TMU serial # (non-accessible)
2.Enter owner information
Proceed
Screen 4.
209
WARNING.: Verify above information.
LAST CHANCE
Proceed
Screen 5.
211
1.Please ensure printer is ON LINE
2.The above information will be printed in triplicate
3.Sign and mail two copies to E-Stamp Corporation, retain one copy
4.A registration card will be mailed to you to access TMU refilling stations
Proceed
Screen 6.
213
INSTALLATION PROCEEDING
Now copying files... % completed
Insert diskette # 2
Proceed
Screen 7.
215
INSTALLATION PROCEEDING
Now copying files... % completed
Installation completed

FIG. 2

E-Stamp Corporation
3050 Post Oak Blvd., Suite 110
Houston, Tx 77056-6524

Telephone (713)871-9799 Fax (713)871-0139

"E-Stamp"™ - Registration form

31 T.M.U. Button Serial #000000001 Date: April 20, 1994
32 E-Stamp Serial #000000001 Time: 01:29 AM } 33

35 Registered user:
Individual Salim G. Kara Social Security # 636-18-0137
Organization Global Impex, Inc. Employer I.N. # 76-0422781
Address: 3050 Post Oak Blvd.
Suite 110
City: Houston State: Tx Zipcode+4: 77056-6524
Telephone: (713)871-9799 Fax: (713)871-0139

E-Stamp Corporation License Agreement

38 This is a legal agreement between you (an individual or an entity), the end user, and E-Stamp Corporation. If you do not agree to the terms of this Agreement, promptly return the disk package and accompanying items (including all hardware, written materials and binders or other containers) to the place you obtained them for a full refund.
License
1. Grant of License.
2. Term of License.
3. Copyright.
4. Other restrictions.
5. Limited warranty.
6. Customer remedies.
7. No Other Warranties.
8. No Liability for Consequential Damages.

37

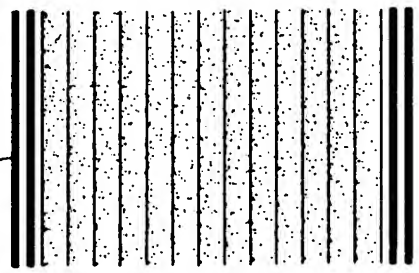


FIG. 3

FIG. 4A

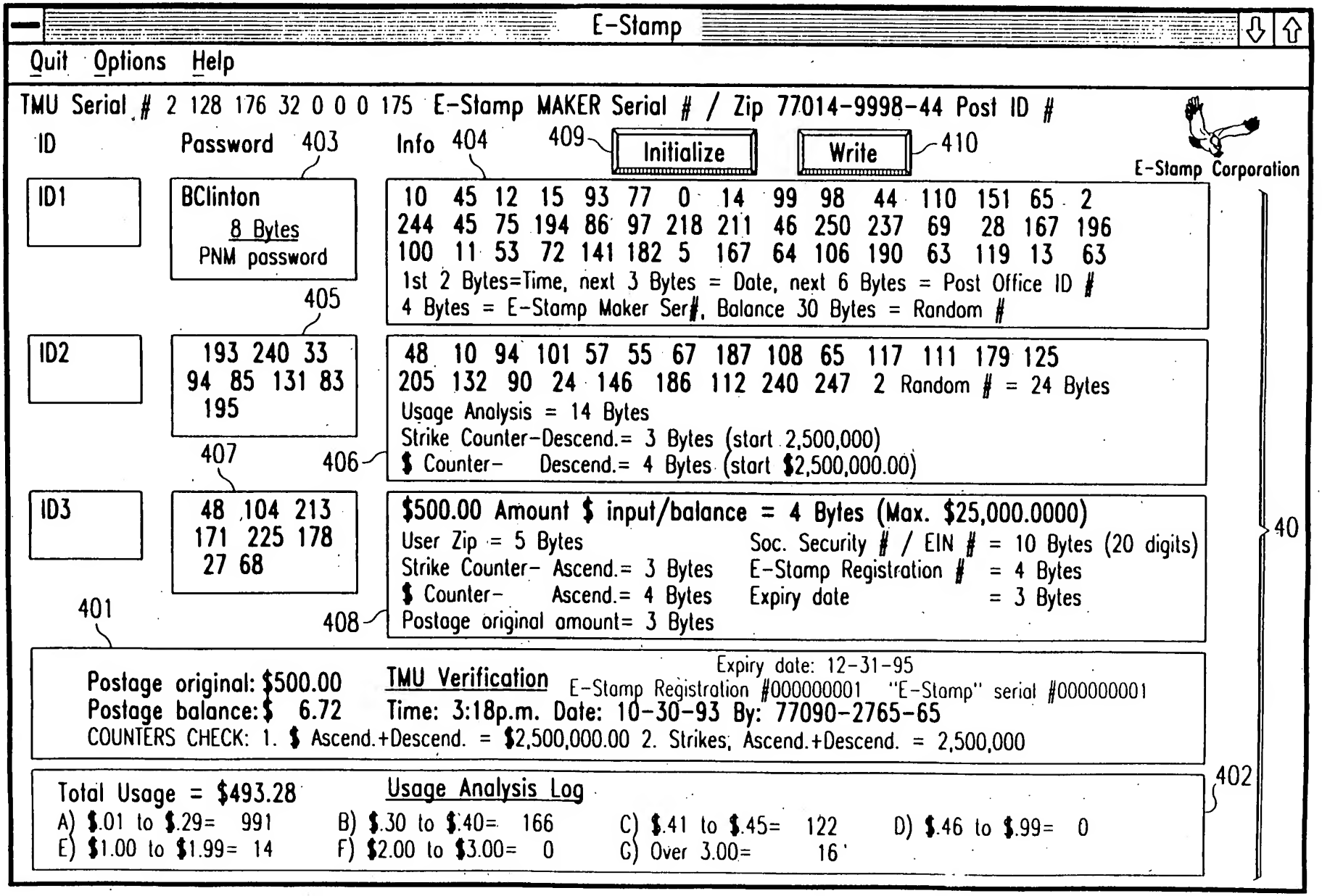
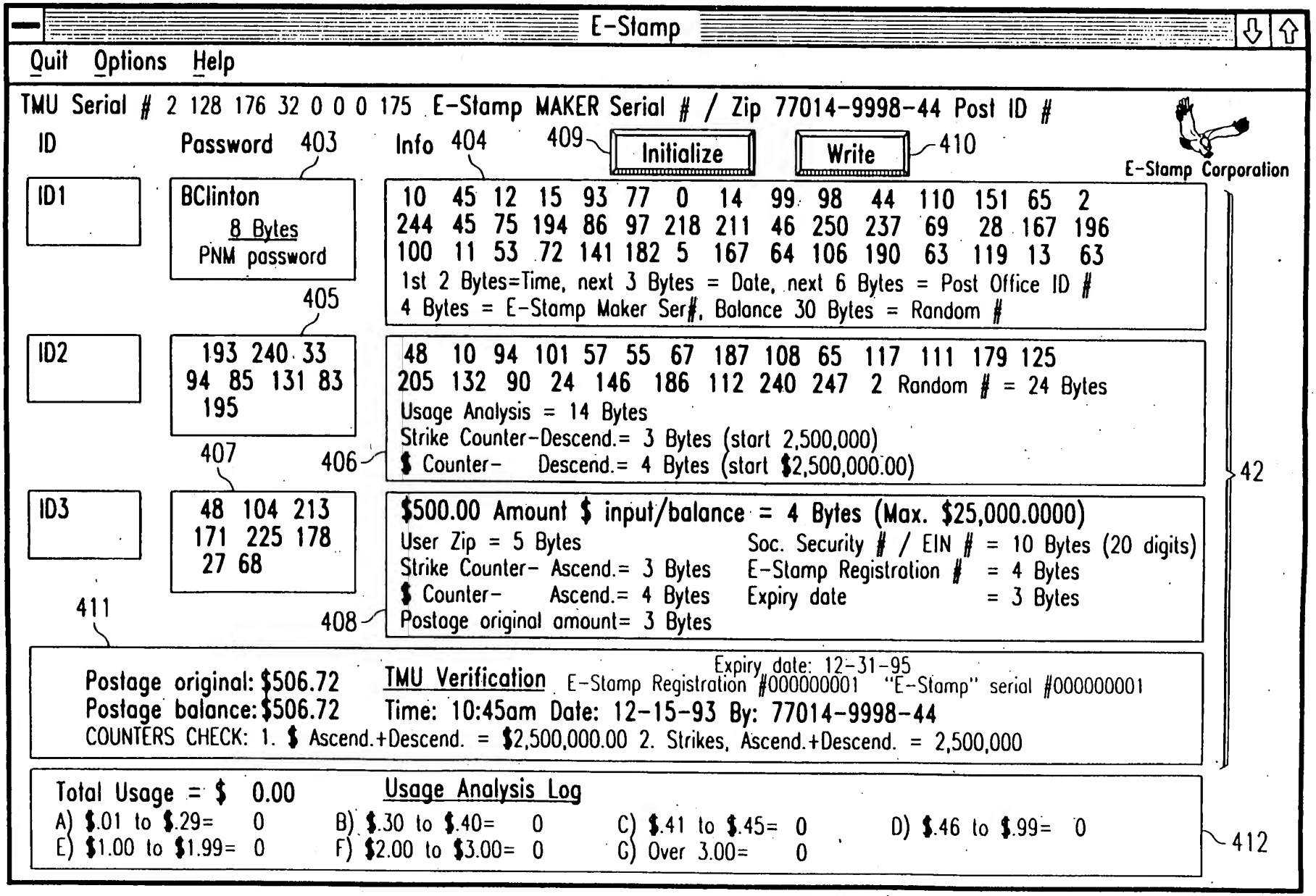

E-Stamp
Quit Options Help
TMU Serial # 2 128 176 32 0 0 0 175 E-Stamp MAKER Serial # / Zip 77014-9998-44 Post ID #
ID
Password
403
Info
404
409
Initialize
Write
410
E-Stamp Corporation
ID1
BClinton
8 Bytes
PNM password
10 45 12 15 93 77 0 14 99 98 44 110 151 65 2
244 45 75 194 86 97 218 211 46 250 237 69 28 167 196
100 11 53 72 141 182 5 167 64 106 190 63 119 13 63
1st 2 Bytes=Time, next 3 Bytes = Date, next 6 Bytes = Post Office ID #
4 Bytes = E-Stamp Maker Ser#, Balance 30 Bytes = Random #
405
ID2
193 240 33
94 85 131 83
195
48 10 94 101 57 55 67 187 108 65 117 111 179 125
205 132 90 24 146 186 112 240 247 2 Random # = 24 Bytes
Usage Analysis = 14 Bytes
Strike Counter-Descend.= 3 Bytes (start 2,500,000)
$ Counter- Descend.= 4 Bytes (start $2,500,000.00)
407
406
ID3
48 104 213
171 225 178
27 68
$500.00 Amount $ input/balance = 4 Bytes (Max. $25,000.0000)
User Zip = 5 Bytes
Soc. Security # / EIN # = 10 Bytes (20 digits)
Strike Counter- Ascend.= 3 Bytes
E-Stamp Registration # = 4 Bytes
$ Counter- Ascend.= 4 Bytes
Expiry date = 3 Bytes
Postage original amount= 3 Bytes
408
40
401
Postage original: $500.00
Postage balance: $ 6.72
TMU Verification
Expiry date: 12-31-95
E-Stamp Registration #000000001 "E-Stamp" serial #000000001
Time: 3:18p.m. Date: 10-30-93 By: 77090-2765-65
COUNTERS CHECK: 1. $ Ascend.+Descend. = $2,500,000.00 2. Strikes; Ascend.+Descend. = 2,500,000
Total Usage = $493.28
Usage Analysis Log
A) $.01 to $.29= 991
B) $.30 to $.40= 166
C) $.41 to $.45= 122
D) $.46 to $.99= 0
E) $1.00 to $1.99= 14
F) $2.00 to $3.00= 0
G) Over 3.00= 16
402

FIG. 4B


E-Stamp
Quit Options Help
TMU Serial # 2 128 176 32 0 0 0 175 E-Stamp MAKER Serial # / Zip 77014-9998-44 Post ID #
ID
Password 403
Info 404
409
Initialize
Write
410
E-Stamp Corporation
ID1
BClinton
8 Bytes
PNM password
10 45 12 15 93 77 0 14 99 98 44 110 151 65 2
244 45 75 194 86 97 218 211 46 250 237 69 28 167 196
100 11 53 72 141 182 5 167 64 106 190 63 119 13 63
1st 2 Bytes=Time, next 3 Bytes = Date, next 6 Bytes = Post Office ID #
4 Bytes = E-Stamp Maker Ser#, Balance 30 Bytes = Random #
405
ID2
193 240 33
94 85 131 83
195
48 10 94 101 57 55 67 187 108 65 117 111 179 125
205 132 90 24 146 186 112 240 247 2 Random # = 24 Bytes
Usage Analysis = 14 Bytes
Strike Counter-Descend.= 3 Bytes (start 2,500,000)
$ Counter- Descend.= 4 Bytes (start $2,500,000.00)
407
406
ID3
48 104 213
171 225 178
27 68
$500.00 Amount $ input/balance = 4 Bytes (Max. $25,000.0000)
User Zip = 5 Bytes
Soc. Security # / EIN # = 10 Bytes (20 digits)
Strike Counter- Ascend.= 3 Bytes
E-Stamp Registration # = 4 Bytes
$ Counter- Ascend.= 4 Bytes
Expiry date = 3 Bytes
Postage original amount= 3 Bytes
42
411
408
Expiry date: 12-31-95
Postage original: $506.72
TMU Verification E-Stamp Registration #000000001 "E-Stamp" serial #000000001
Postage balance: $506.72
Time: 10:45am Date: 12-15-93 By: 77014-9998-44
COUNTERS CHECK: 1. $ Ascend.+Descend. = $2,500,000.00 2. Strikes, Ascend.+Descend. = 2,500,000
Total Usage = $ 0.00
Usage Analysis Log
A) $.01 to $.29= 0
B) $.30 to $.40= 0
C) $.41 to $.45= 0
D) $.46 to $.99= 0
E) $1.00 to $1.99= 0
F) $2.00 to $3.00= 0
G) Over 3.00= 0
412

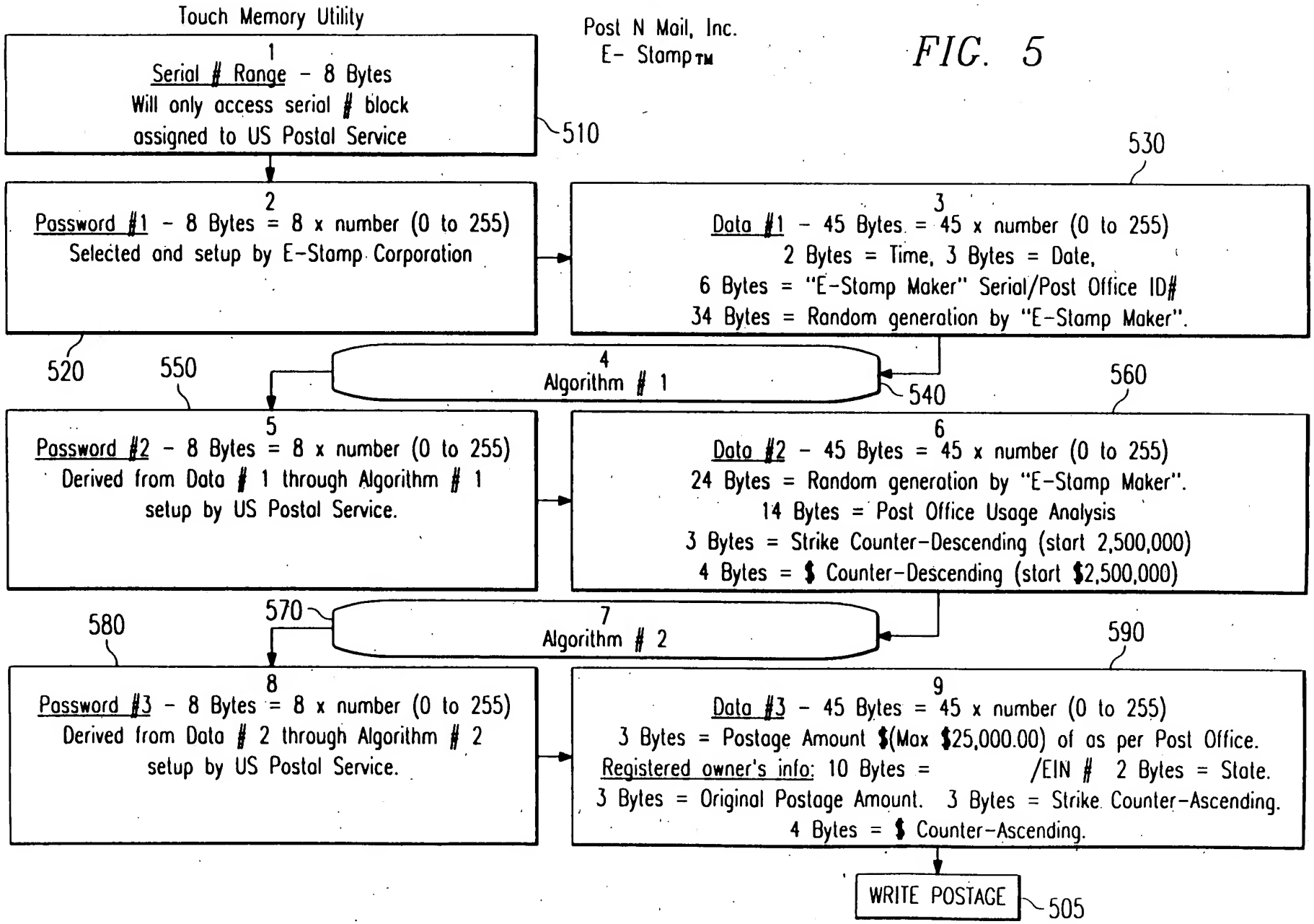

Touch Memory Utility
Post N Mail, Inc.
E- Stamp™
1
Serial # Range - 8 Bytes
Will only access serial # block
assigned to US Postal Service
510
2
Password #1 - 8 Bytes = 8 x number (0 to 255)
Selected and setup by E-Stamp Corporation
520
3
Data #1 - 45 Bytes = 45 x number (0 to 255)
2 Bytes = Time, 3 Bytes = Date,
6 Bytes = "E-Stamp Maker" Serial/Post Office ID#
34 Bytes = Random generation by "E-Stamp Maker".
530
4
Algorithm # 1
540
550
5
Password #2 - 8 Bytes = 8 x number (0 to 255)
Derived from Data # 1 through Algorithm # 1
setup by US Postal Service.
560
6
Data #2 - 45 Bytes = 45 x number (0 to 255)
24 Bytes = Random generation by "E-Stamp Maker".
14 Bytes = Post Office Usage Analysis
3 Bytes = Strike Counter-Descending (start 2,500,000)
4 Bytes = $ Counter-Descending (start $2,500,000)
570
7
Algorithm # 2
580
8
Password #3 - 8 Bytes = 8 x number (0 to 255)
Derived from Data # 2 through Algorithm # 2
setup by US Postal Service.
590
9
Data #3 - 45 Bytes = 45 x number (0 to 255)
3 Bytes = Postage Amount $(Max $25,000.00) of as per Post Office.
Registered owner's info: 10 Bytes = /EIN # 2 Bytes = State.
3 Bytes = Original Postage Amount. 3 Bytes = Strike Counter-Ascending.
4 Bytes = $ Counter-Ascending.
WRITE POSTAGE
505

FIG. 5

Level 1: Password.

BCLINTON

Level 2: Algorithm 1.

p1 = (d1 + d4 + d7 + d10 + d13 + d16) mod 256
p2 = (d2 + d5 + d8 + d11 + d14 + d17) mod 256
p3 = (d3 + d6 + d9 + d12 + d15 + d18) mod 256
p4 = (d19 + d22 + d25 + d28 + d31 + d34) mod 256
p5 = (d20 + d23 + d26 + d29 + d32 + d35) mod 256
p6 = (d21 + d24 + 27 + d30 + d33 + d36) mod 256
p7 = (d37 + d38 + d39 + d40 + d41 + d42) mod 256
p8 = (d43 + d44 + d45) mod 256

Level 3: Algorithm 2.

p1 = d1 mod 256
p2 = (d2 + d3) mod 256
p3 = (d4 + d5 + d6) mod 256
p4 = (d7 + d8 + d9 + d10) mod 256
p5 = (d11 + d12 + d13 + d14 + d15) mod 256
p6 = (d16 + d17 + d18 + d19 + d20 + d21) mod 256
p7 = (d22 + d23 + d24 + d25 + d26 + d27 + d28) mod 256
p8 = (d29 + d30 + d31 + d32 + d33 + d34 + d35 + d36 + d37 + d38 + d39
+ d40 + d41 + d42 + d43 + d44 + d45) mod 256

FIG. 6

FIG. 7A

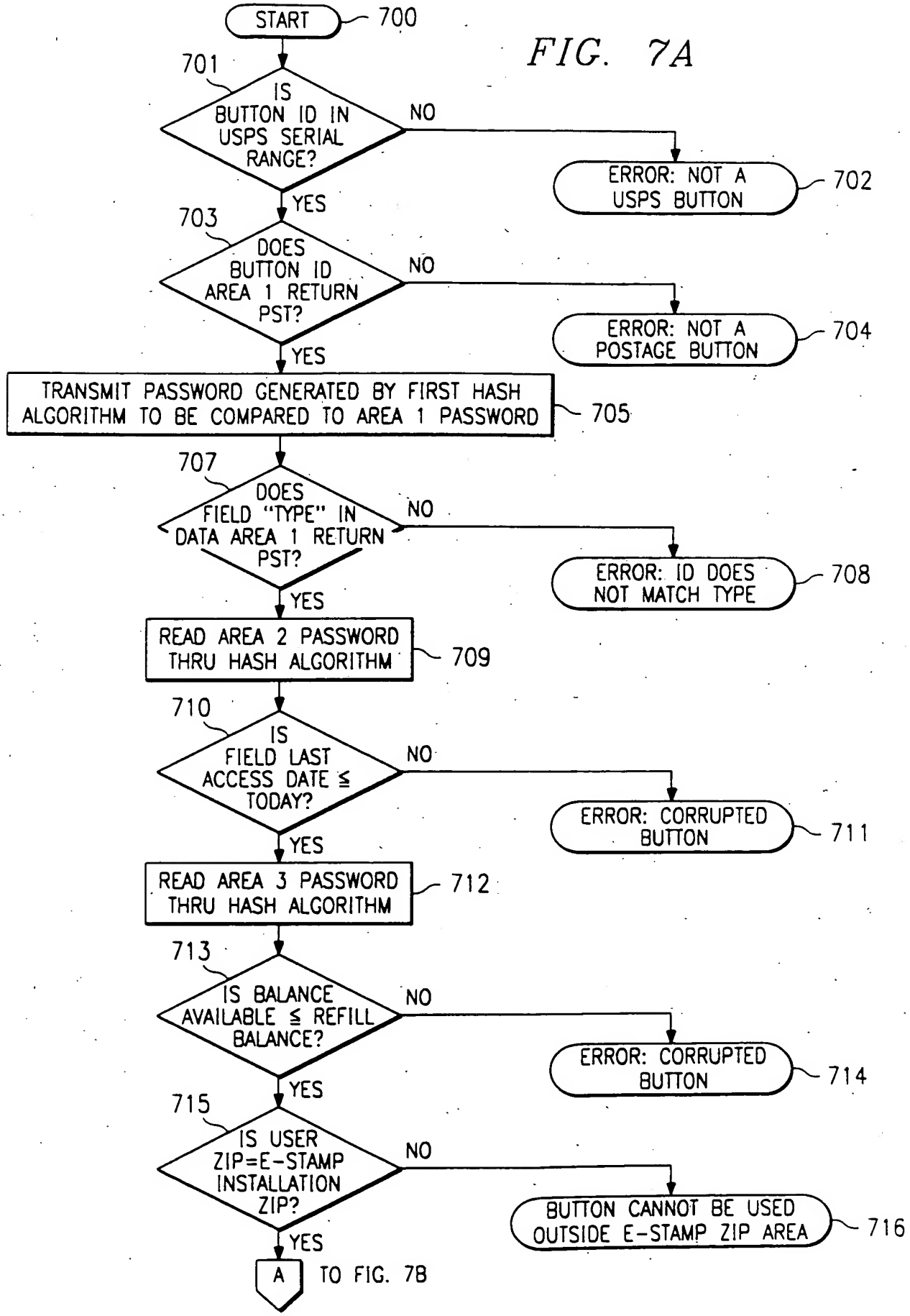

START
700
701
IS BUTTON ID IN USPS SERIAL RANGE?
NO
ERROR: NOT A USPS BUTTON
702
YES
703
DOES BUTTON ID AREA 1 RETURN PST?
NO
ERROR: NOT A POSTAGE BUTTON
704
YES
TRANSMIT PASSWORD GENERATED BY FIRST HASH ALGORITHM TO BE COMPARED TO AREA 1 PASSWORD
705
707
DOES FIELD "TYPE" IN DATA AREA 1 RETURN PST?
NO
ERROR: ID DOES NOT MATCH TYPE
708
YES
READ AREA 2 PASSWORD THRU HASH ALGORITHM
709
710
IS FIELD LAST ACCESS DATE ≤ TODAY?
NO
ERROR: CORRUPTED BUTTON
711
YES
READ AREA 3 PASSWORD THRU HASH ALGORITHM
712
713
IS BALANCE AVAILABLE ≤ REFILL BALANCE?
NO
ERROR: CORRUPTED BUTTON
714
YES
715
IS USER ZIP=E-STAMP INSTALLATION ZIP?
NO
BUTTON CANNOT BE USED OUTSIDE E-STAMP ZIP AREA
716
YES
A
TO FIG. 7B

FIG. 7B

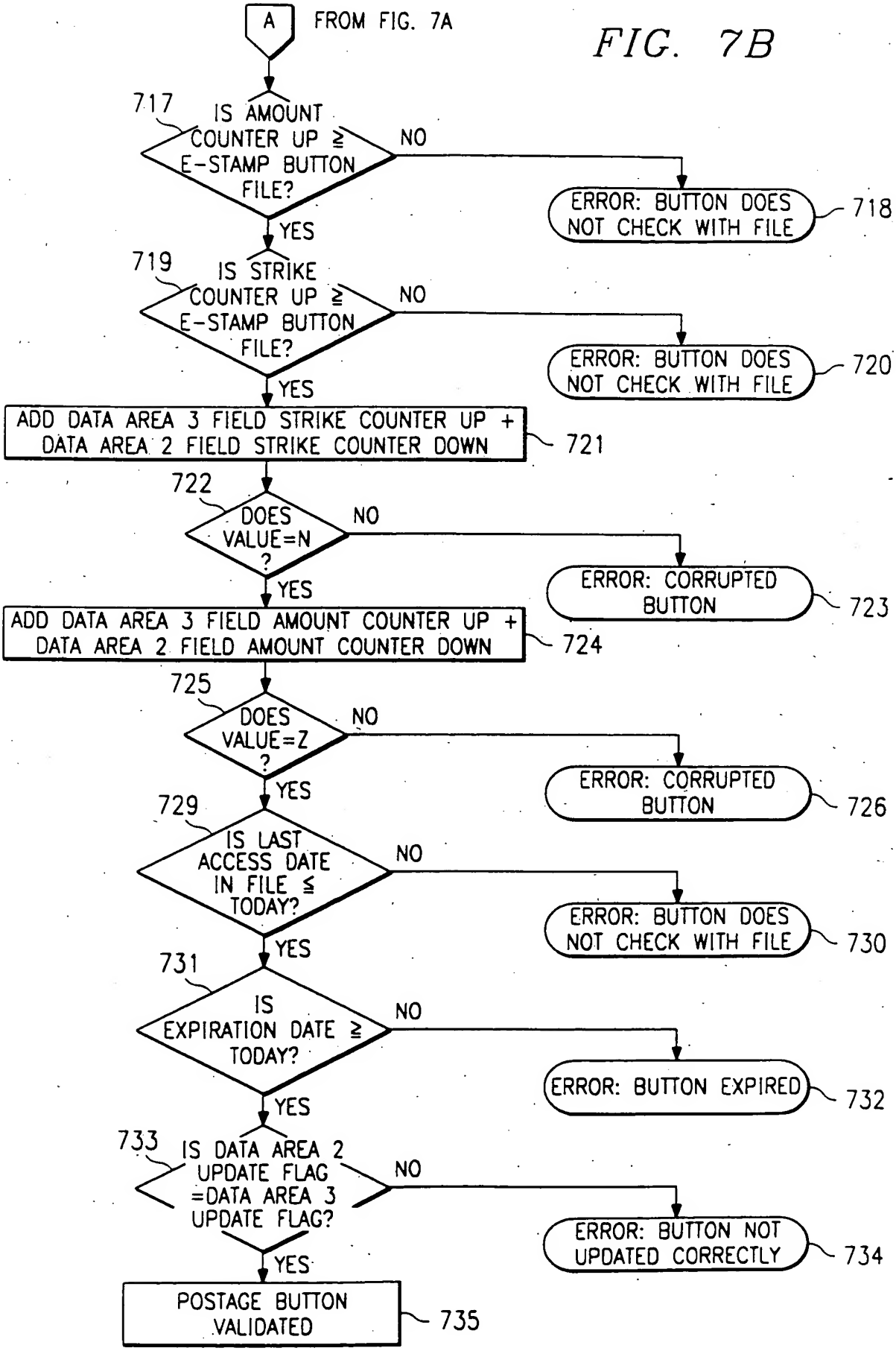
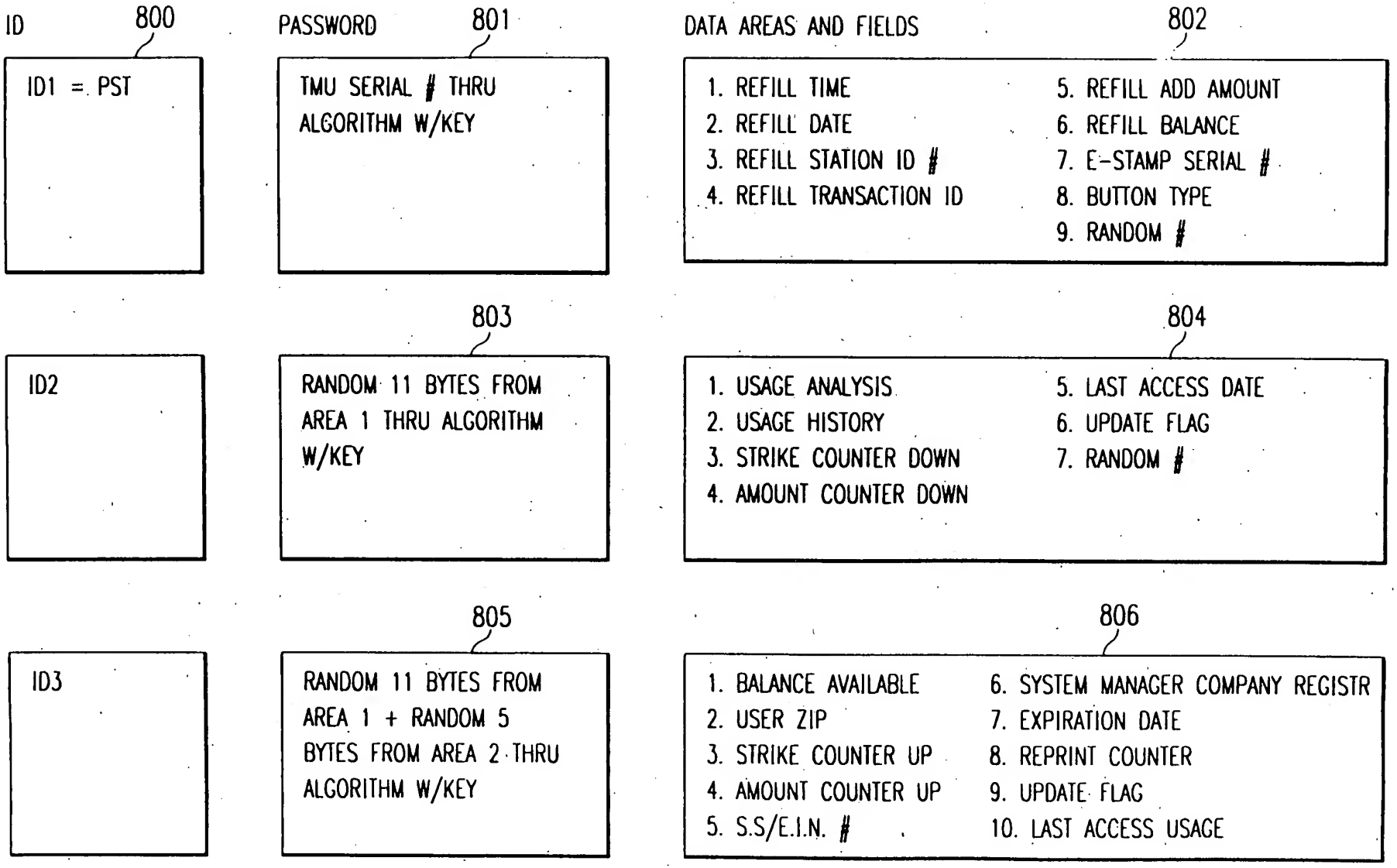

A
FROM FIG. 7A
717
IS AMOUNT COUNTER UP ≥ E-STAMP BUTTON FILE?
NO
ERROR: BUTTON DOES NOT CHECK WITH FILE
718
YES
719
IS STRIKE COUNTER UP ≥ E-STAMP BUTTON FILE?
NO
ERROR: BUTTON DOES NOT CHECK WITH FILE
720
YES
ADD DATA AREA 3 FIELD STRIKE COUNTER UP + DATA AREA 2 FIELD STRIKE COUNTER DOWN
721
722
DOES VALUE=N ?
NO
ERROR: CORRUPTED BUTTON
723
YES
ADD DATA AREA 3 FIELD AMOUNT COUNTER UP + DATA AREA 2 FIELD AMOUNT COUNTER DOWN
724
725
DOES VALUE=Z ?
NO
ERROR: CORRUPTED BUTTON
726
YES
729
IS LAST ACCESS DATE IN FILE ≤ TODAY?
NO
ERROR: BUTTON DOES NOT CHECK WITH FILE
730
YES
731
IS EXPIRATION DATE ≥ TODAY?
NO
ERROR: BUTTON EXPIRED
732
YES
733
IS DATA AREA 2 UPDATE FLAG =DATA AREA 3 UPDATE FLAG?
NO
ERROR: BUTTON NOT UPDATED CORRECTLY
734
YES
POSTAGE BUTTON VALIDATED
735

FIG. 8


ID
800
PASSWORD
801
DATA AREAS AND FIELDS
802
ID1 = PST
TMU SERIAL # THRU ALGORITHM W/KEY
1. REFILL TIME
2. REFILL DATE
3. REFILL STATION ID #
4. REFILL TRANSACTION ID
5. REFILL ADD AMOUNT
6. REFILL BALANCE
7. E-STAMP SERIAL #
8. BUTTON TYPE
9. RANDOM #
803
804
ID2
RANDOM 11 BYTES FROM AREA 1 THRU ALGORITHM W/KEY
1. USAGE ANALYSIS
2. USAGE HISTORY
3. STRIKE COUNTER DOWN
4. AMOUNT COUNTER DOWN
5. LAST ACCESS DATE
6. UPDATE FLAG
7. RANDOM #
805
806
ID3
RANDOM 11 BYTES FROM AREA 1 + RANDOM 5 BYTES FROM AREA 2 THRU ALGORITHM W/KEY
1. BALANCE AVAILABLE
2. USER ZIP
3. STRIKE COUNTER UP
4. AMOUNT COUNTER UP
5. S.S/E.I.N. #
6. SYSTEM MANAGER COMPANY REGISTR
7. EXPIRATION DATE
8. REPRINT COUNTER
9. UPDATE FLAG
10. LAST ACCESS USAGE

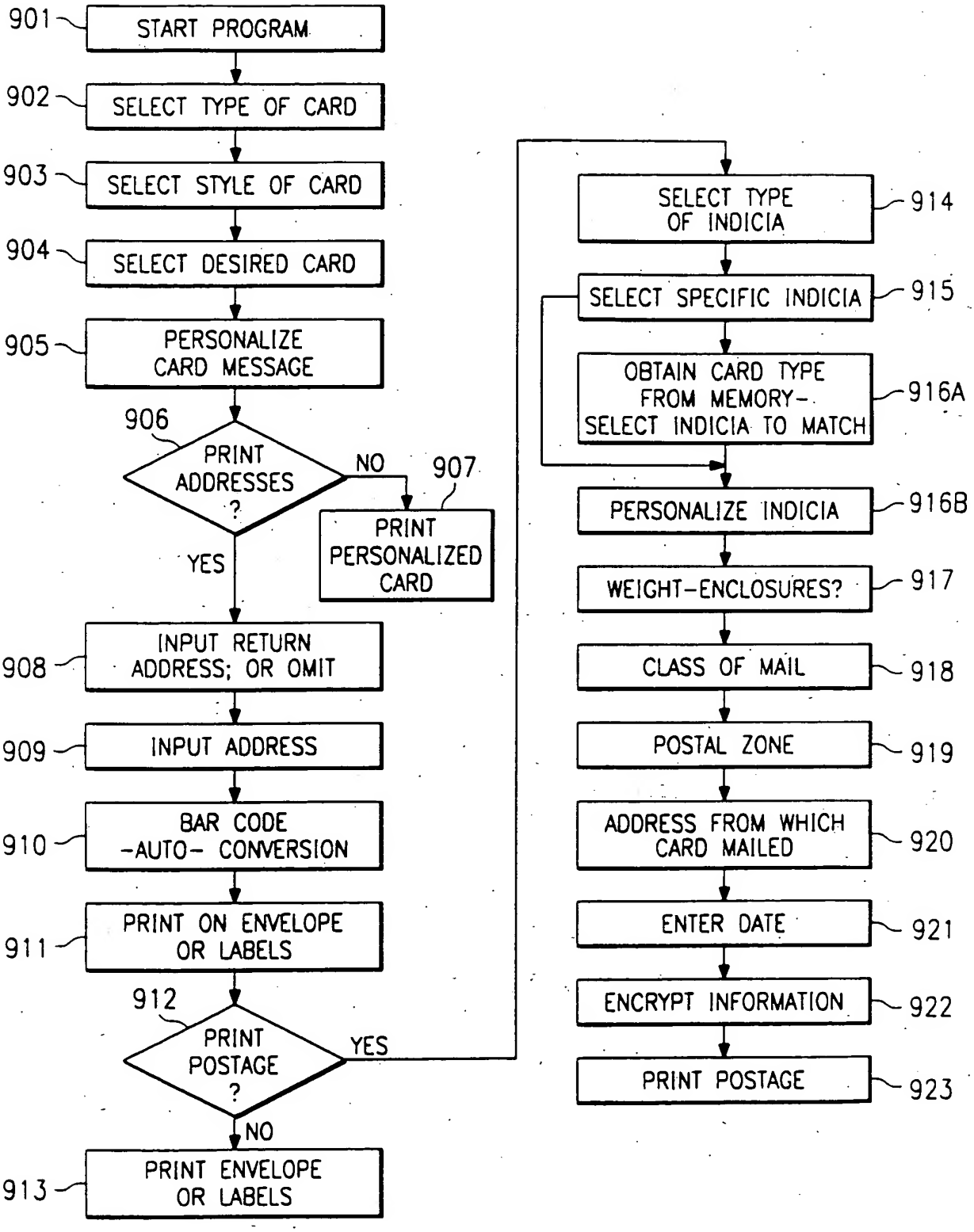

901
START PROGRAM
902
SELECT TYPE OF CARD
903
SELECT STYLE OF CARD
904
SELECT DESIRED CARD
905
PERSONALIZE CARD MESSAGE
906
PRINT ADDRESSES ?
NO
907
PRINT PERSONALIZED CARD
YES
908
INPUT RETURN ADDRESS; OR OMIT
909
INPUT ADDRESS
910
BAR CODE -AUTO- CONVERSION
911
PRINT ON ENVELOPE OR LABELS
912
PRINT POSTAGE ?
YES
NO
913
PRINT ENVELOPE OR LABELS
914
SELECT TYPE OF INDICIA
915
SELECT SPECIFIC INDICIA
916A
OBTAIN CARD TYPE FROM MEMORY- SELECT INDICIA TO MATCH
916B
PERSONALIZE INDICIA
917
WEIGHT-ENCLOSURES?
918
CLASS OF MAIL
919
POSTAL ZONE
920
ADDRESS FROM WHICH CARD MAILED
921
ENTER DATE
922
ENCRYPT INFORMATION
923
PRINT POSTAGE

FIG. 9

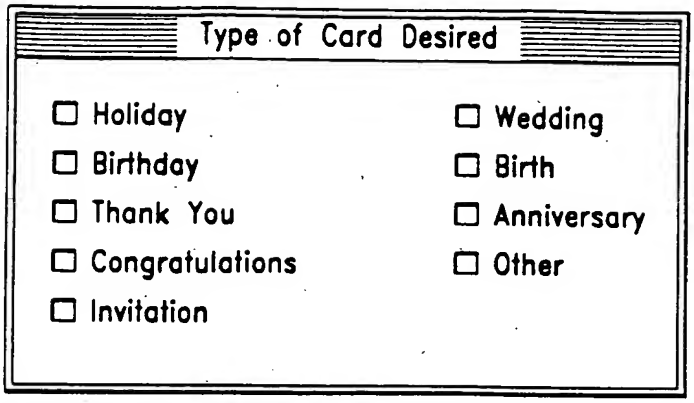


FIG. 10

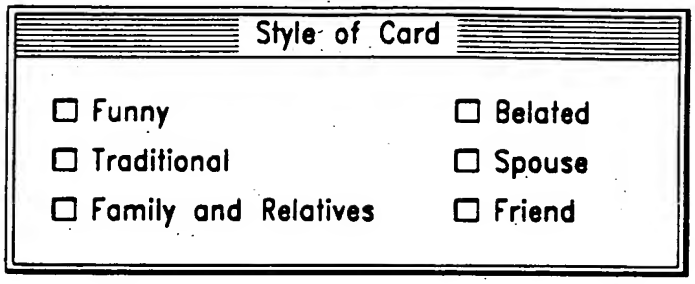


FIG. 11

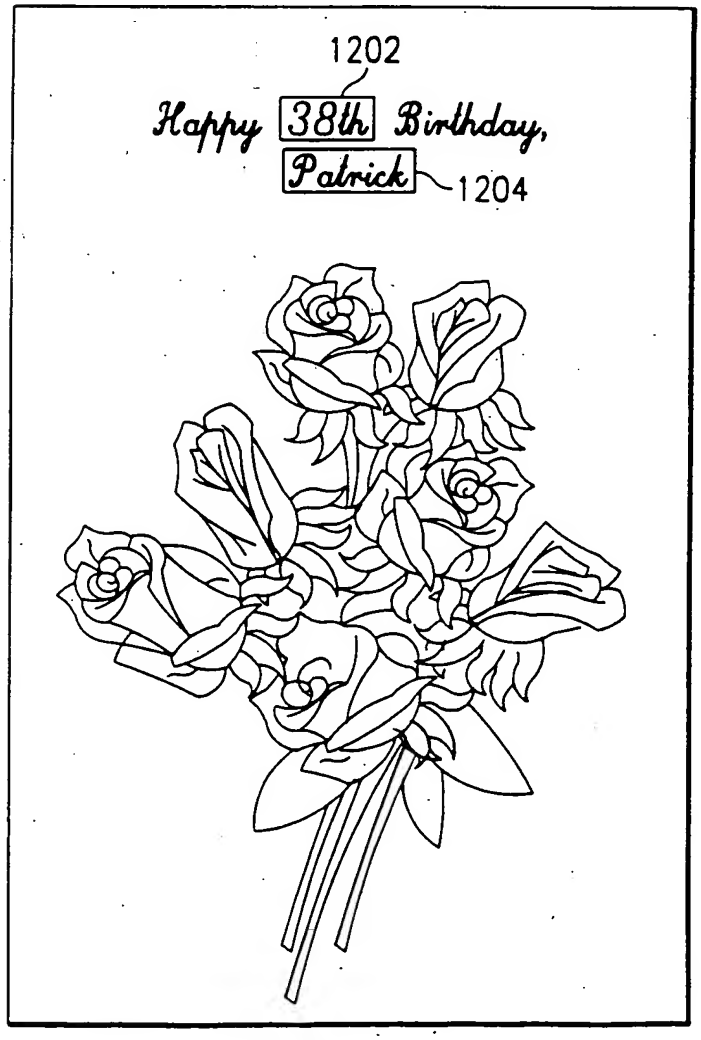


FIG. 12A

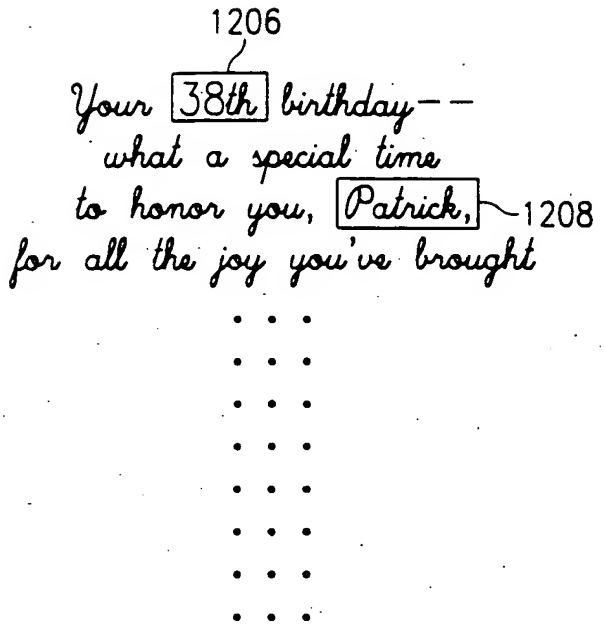


FIG. 12B

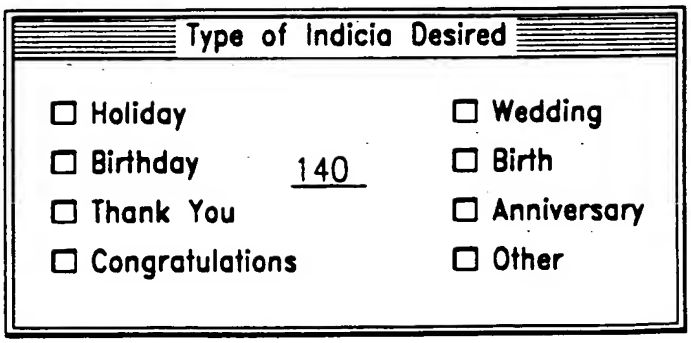
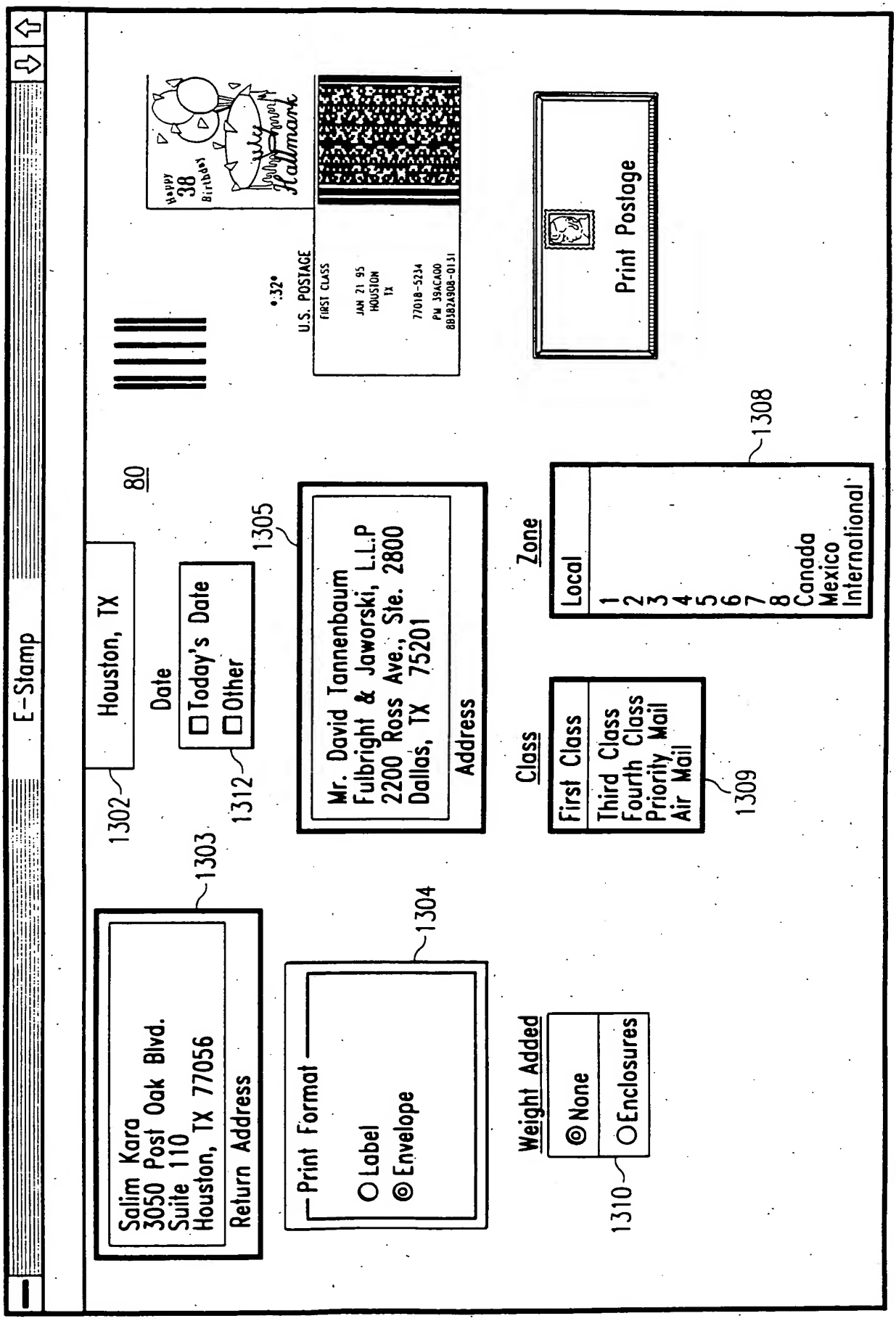


FIG. 14

FIG. 13


E-Stamp
80
Houston, TX
1302
Date
Today's Date
Other
1312
1305
Mr. David Tannenbaum
Fulbright & Jaworski, L.L.P
2200 Ross Ave., Ste. 2800
Dallas, TX 75201
Address
Salim Kara
3050 Post Oak Blvd.
Suite 110
Houston, TX 77056
Return Address
1303
Print Format
Label
Envelope
1304
Weight Added
None
Enclosures
1310
Class
First Class
Third Class
Fourth Class
Priority Mail
Air Mail
1309
Zone
Local
1
2
3
4
5
6
7
8
Canada
Mexico
International
1308
Print Postage
U.S. POSTAGE
FIRST CLASS
JAN 21 95
HOUSTON
TX
77018-5234
Happy 38 Birthday!
Hallmark

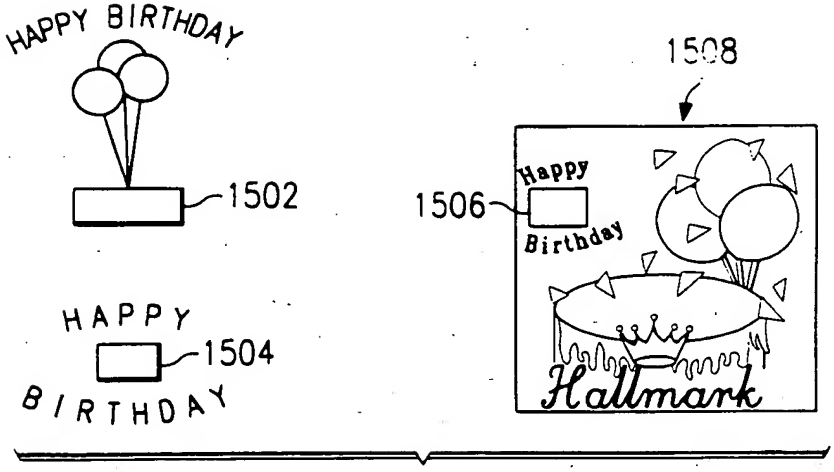


FIG. 15A

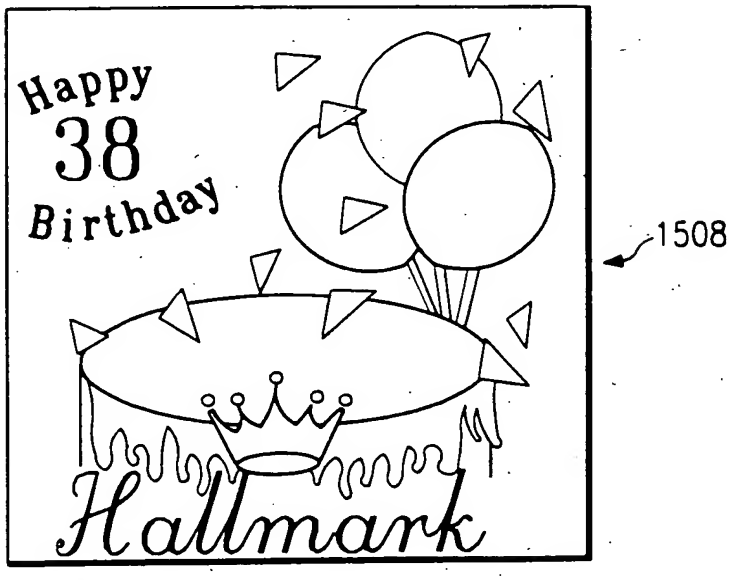


FIG. 15B

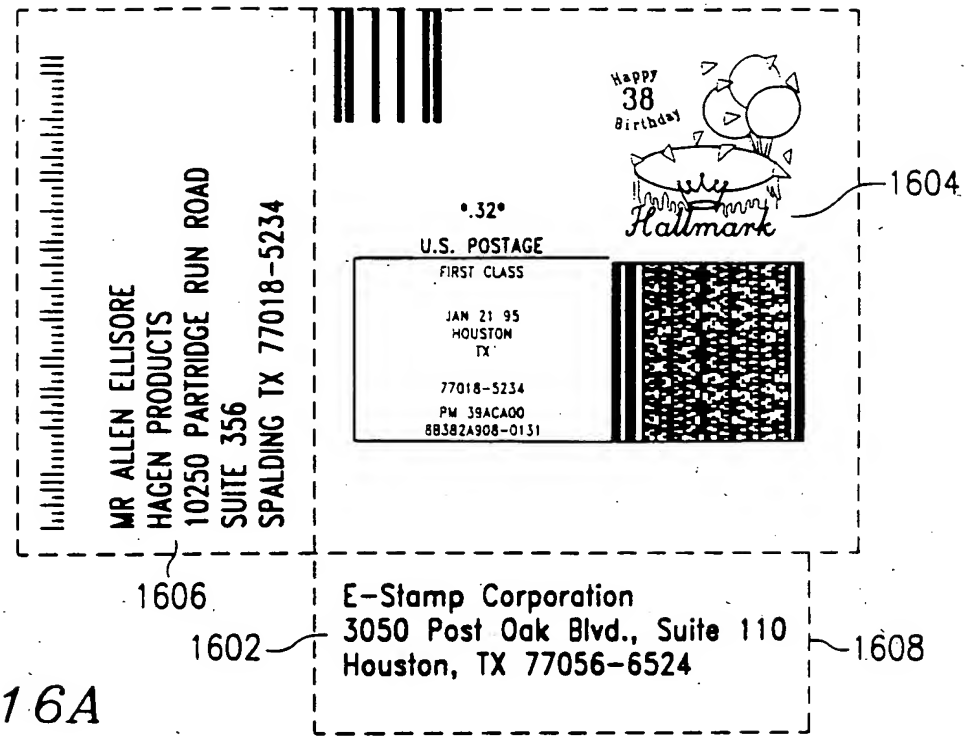


FIG. 16A

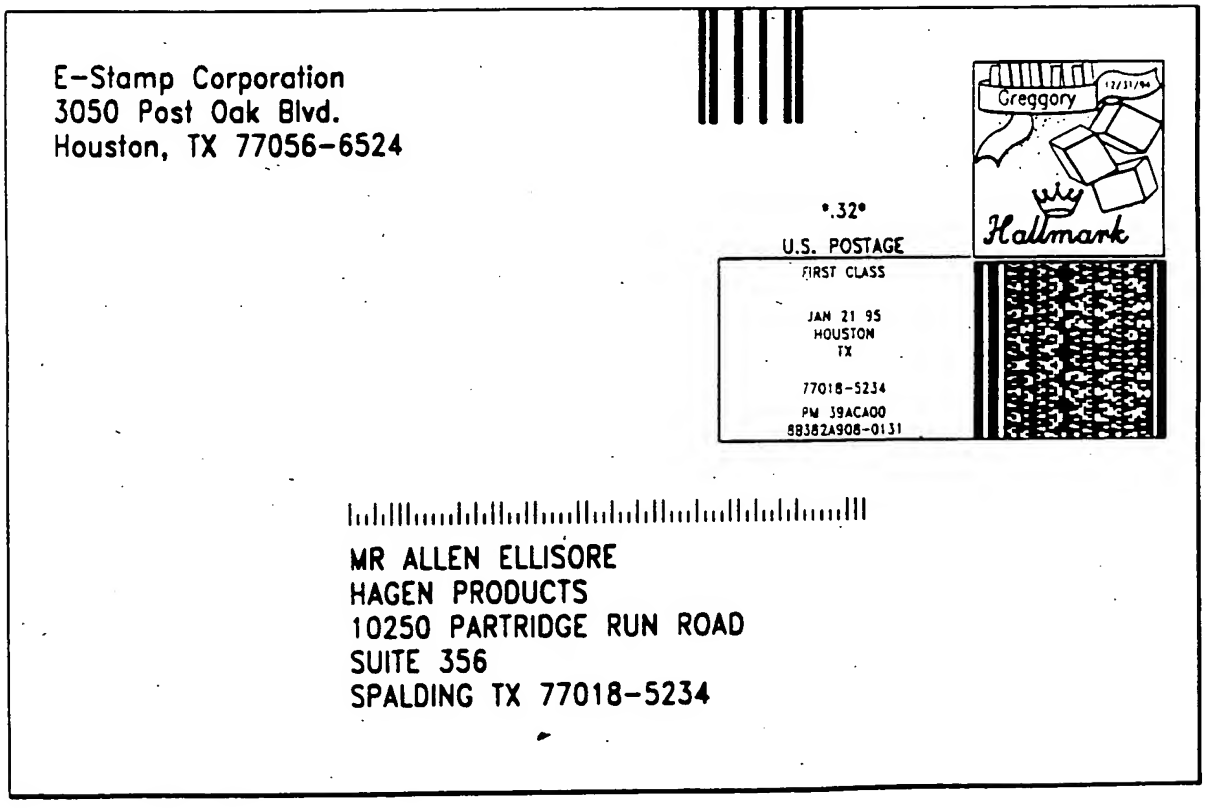


FIG. 16B

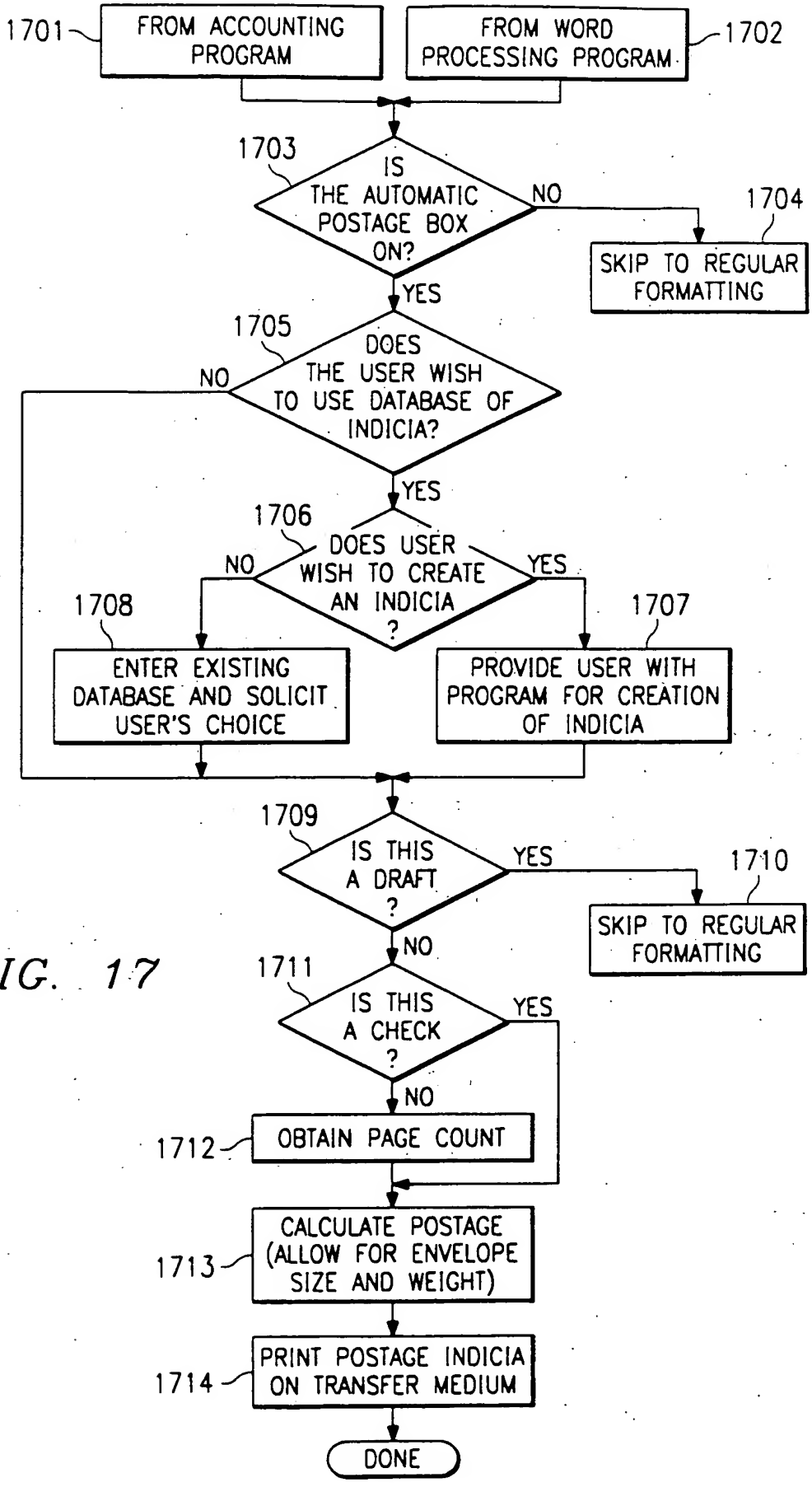

1701
FROM ACCOUNTING PROGRAM
FROM WORD PROCESSING PROGRAM
1702
1703
IS THE AUTOMATIC POSTAGE BOX ON?
NO
1704
SKIP TO REGULAR FORMATTING
YES
1705
DOES THE USER WISH TO USE DATABASE OF INDICIA?
NO
YES
1706
DOES USER WISH TO CREATE AN INDICIA ?
NO
YES
1708
ENTER EXISTING DATABASE AND SOLICIT USER'S CHOICE
1707
PROVIDE USER WITH PROGRAM FOR CREATION OF INDICIA
1709
IS THIS A DRAFT ?
YES
1710
SKIP TO REGULAR FORMATTING
NO
1711
IS THIS A CHECK ?
YES
NO
1712
OBTAIN PAGE COUNT
1713
CALCULATE POSTAGE (ALLOW FOR ENVELOPE SIZE AND WEIGHT)
1714
PRINT POSTAGE INDICIA ON TRANSFER MEDIUM
DONE

FIG. 17

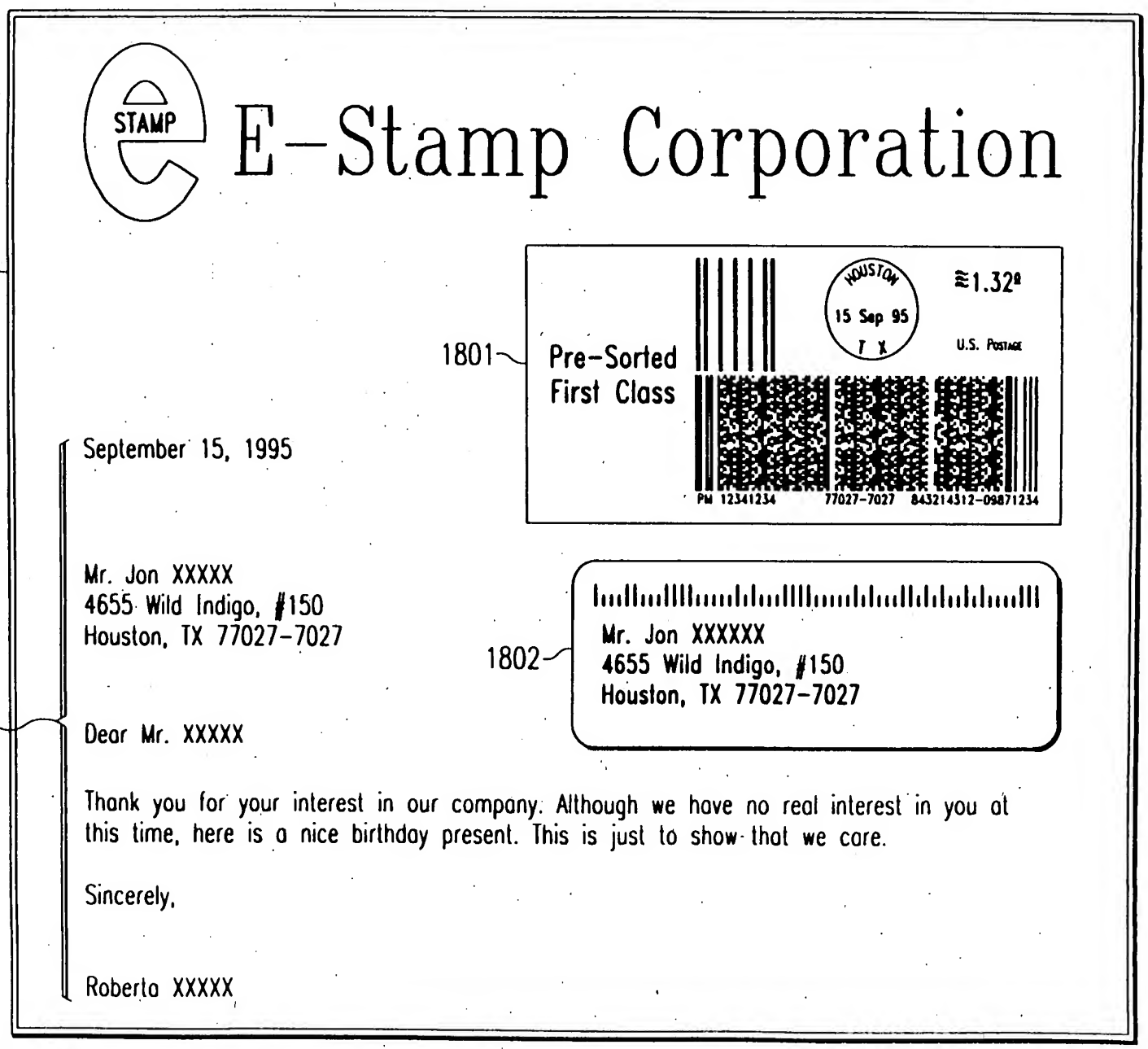

STAMP
E-Stamp Corporation
1800
1801
Pre-Sorted
First Class
HOUSTON
15 Sep 95
TX
≅1.32
U.S. POSTAGE
PM 12341234
77027-7027
843214312-09871234
September 15, 1995
Mr. Jon XXXXX
4655 Wild Indigo, #150
Houston, TX 77027-7027
1802
Mr. Jon XXXXXX
4655 Wild Indigo, #150
Houston, TX 77027-7027
1803
Dear Mr. XXXXX
Thank you for your interest in our company. Although we have no real interest in you at this time, here is a nice birthday present. This is just to show that we care.
Sincerely,
Roberto XXXXX

FIG. 18

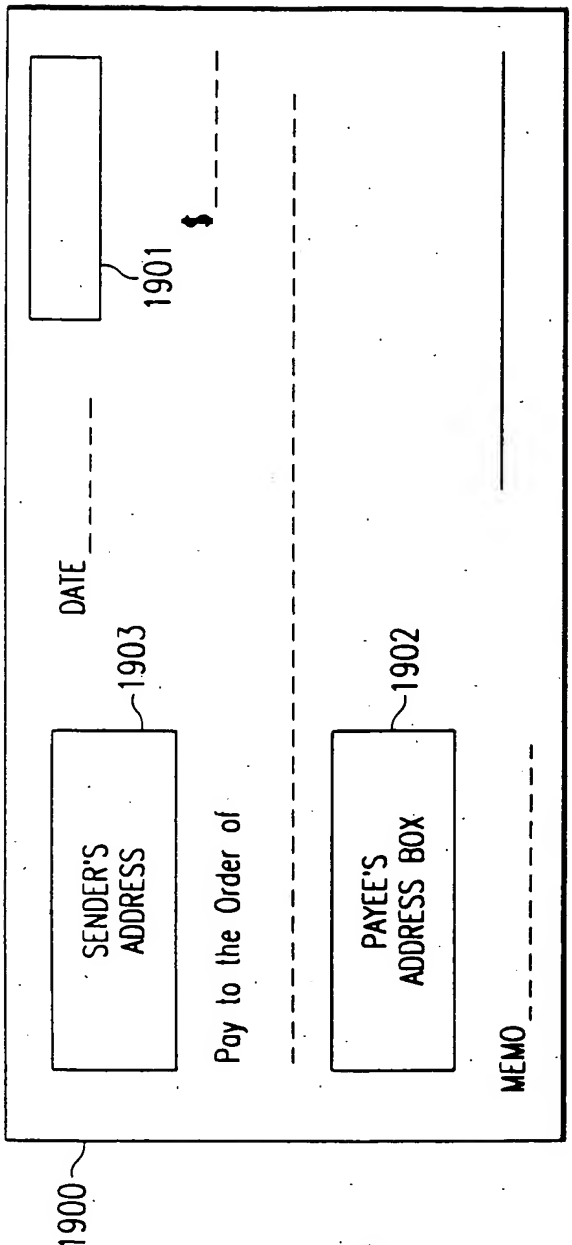

1900
SENDER'S ADDRESS
1903
DATE
1901
$
Pay to the Order of
PAYEE'S ADDRESS BOX
1902
MEMO

FIG. 19

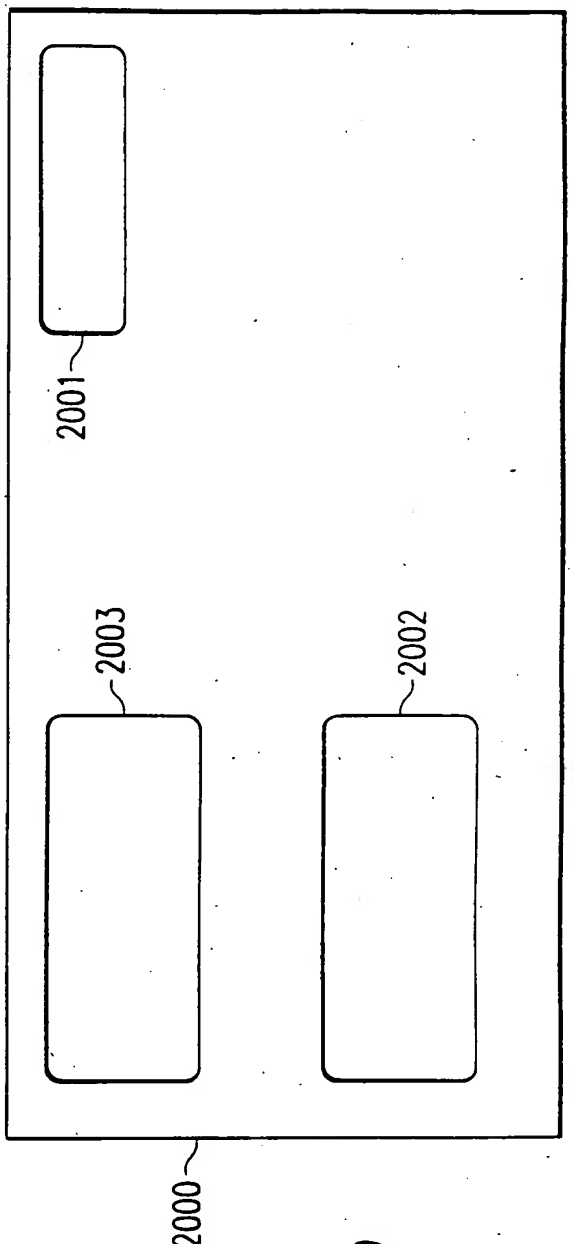

2000
2001
2003
2002

FIG. 20

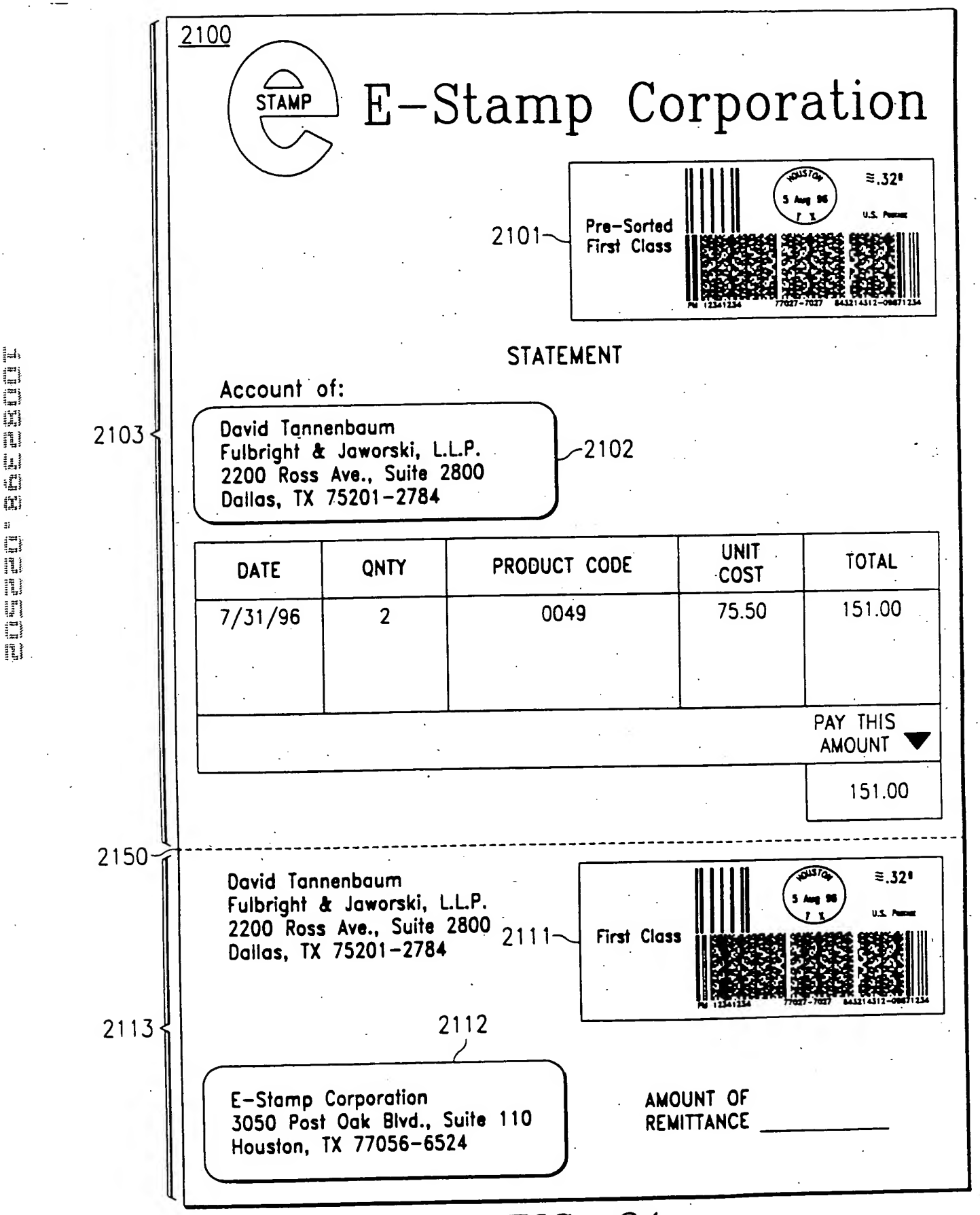

2100
STAMP
E-Stamp Corporation
2101
Pre-Sorted
First Class
HOUSTON
5 Aug 96
TX
U.S. Postage
STATEMENT
Account of:
2103
David Tannenbaum
Fulbright & Jaworski, L.L.P.
2200 Ross Ave., Suite 2800
Dallas, TX 75201-2784
2102
DATE
QNTY
PRODUCT CODE
UNIT COST
TOTAL
7/31/96
2
0049
75.50
151.00
PAY THIS AMOUNT
151.00
2150
David Tannenbaum
Fulbright & Jaworski, L.L.P.
2200 Ross Ave., Suite 2800
Dallas, TX 75201-2784
2111
First Class
2113
2112
E-Stamp Corporation
3050 Post Oak Blvd., Suite 110
Houston, TX 77056-6524
AMOUNT OF REMITTANCE

FIG. 21